

# Bibliographie für Versicherungsmathematik und Statistik

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## Bibliographie für Versicherungsmathematik und Statistik

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### Regeln für die Aufnahme von Abhandlungen

*a)* Versicherungsmathematische, -technische, -statistische sowie mathematisch-statistische Abhandlungen werden ohne Einschränkung aufgeführt.

*b)* Versicherungswirtschaftliche Abhandlungen werden aufgenommen, sofern sie in einer für die Bibliographie ohnehin vorgesehenen Zeitschrift erschienen sind.

*c)* Mathematische Abhandlungen werden verzeichnet, sobald ein Zusammenhang mit Versicherungsmathematik oder mathematischer Statistik offensichtlich ist.

*d)* Statistische Arbeiten rein beschreibender Art fallen ausser Betracht, sofern sie nicht Erkenntnisse vermitteln, welche für die Versicherung bedeutungsvoll sind.

Den Bearbeitern der Bibliographie standen die Zeitschriften mit ganz wenig Ausnahmen im Original zur Verfügung. Im übrigen ist im Bedarfsfall auf die folgenden Bibliographien zu verweisen:

*a)* Schweizerische Zeitschrift für Volkswirtschaft und Statistik. /

*b)* Revue de l'Institut International de Statistique.

*c)* Mathematical Reviews.

*d)* Zentralblatt für Mathematik und ihre Grenzgebiete.

Waren vom Jahrgang 1955 im Zeitpunkt der Bearbeitung nicht alle Nummern erschienen oder zugänglich, so ist die Anzahl der aufgenommenen Hefte bzw. Nummern angegeben. Ohne diese Einschränkung darf angenommen werden, der ganze Jahrgang 1955 sei ausgezogen.

Im Bestreben, eine möglichst lückenlose Bibliographie zu erhalten, haben wir auch die Abhandlungen in den «Mitteilungen der Vereinigung schweizerischer Versicherungsmathematiker» aufgeführt.

**Mitteilungen der Vereinigung schweizerischer Versicherungsmathematiker**

Band 55, 1955

- Marchand, Émile*: Le XIV<sup>e</sup> Congrès International d'Actuaires à Madrid. S. 15–19.
- Nolfi, P.*: Bericht über das I. Thema des XIV. internationalen Aktuar-Kongresses in Madrid. S. 20–26.
- Spring, Osc. W.*: Wie ist das wirtschaftliche Gleichgewicht des Versicherungsbetriebes zu erlangen? Bericht zu Kongressthema III. S. 27–33.
- Muller, Maurice*: La notion de probabilité et ses applications. S. 35–56.
- Jéquier, Ch.*: Les assurances d'annuités sur une et plusieurs têtes et leurs applications aux assurances mixtes. S. 57–82.
- Strickler, P.*: Reserveapproximation durch Hyperbeln nach der  $\varphi$ -Methode. S. 83–98.
- Schöbe, Waldemar*: Bemerkungen zum Zinsfussproblem. Oskulierende Umkehrung. S. 99–108.
- Internationale versicherungsmathematische Bezeichnungsweise. S. 109–122.
- Notation actuarielle internationale. S. 123–136.
- Zwinggi, E.*: Vereinigung schweizerischer Versicherungsmathematiker 1905–1955. S. 139–168.
- Urech, Auguste*: Histoire de l'assurance en Suisse. S. 169–264.
- Ammeter, Hans*: Das Erneuerungsproblem und seine Erweiterung auf stochastische Prozesse. S. 265–304.
- Kaiser, Ernest*: Evolution récente de la théorie mathématique sur la distribution des revenus. S. 305–335.
- Zwinggi, Ernst*: Vermehrungsrate der stabilen Bevölkerung und Variation der Sterblichkeit. S. 391–394.
- Nolfi, P.*: Zur mathematischen Darstellung des Nutzens in der Versicherung. S. 395–407.
- Åkerberg, Bengt*: Some notes on Lidstone's and other approximations to temporary life annuities when the force of mortality is  $(1+k)\mu_{x+t}$ . S. 409–415.
- Spring, Osc. W.*: Die maschinelle Berechnung der Erneuerungsfunktion. S. 417–422.
- Rufener, Ernst*: Überlebensordnungen, für welche sich der Leibrentenbarwert durch Zeitrenten darstellen lässt. S. 423–473.
- Dalcher, Andreas*: Statistische Schätzungen mit Quantilen. S. 475–498.
- Hofmann, Martin*: Über zusammengesetzte Poisson-Prozesse und ihre Anwendungen in der Unfallversicherung. S. 499–575.
- Leuenberger, Franz*: Zur mathematischen Theorie der Einkommensverteilung in Abhängigkeit von Alter und Zeit. S. 577–615.

**Schweizerische Versicherungs-Zeitschrift**

23. Jahrgang, 1955/56

- Christinger, Ulrich*: Verlangt Art. 91 Abs. 2 VVG die Aufnahme der Rechnungsgrundlagen zur Ermittlung der Abfindungswerte in die AVB? (Bemerkungen zu einem Bundesgerichtsentscheid.) S. 71–77.
- Wyss, Hans*: Finanzierungsverfahren in der Lebensversicherung. S. 97–110.

*Meyer, Heinz*: Bestellung des Sicherungsfonds in der Lebensversicherung mit Wertpapieren eines Rückversicherers. S. 116–120.

*Steinlin, P.*: Electronics im Versicherungsbetrieb. S. 175–180.

*Liechti, E.*: Versicherung gegen die Folgen der Kinderlähmung. S. 394–397.

*Wegmann, Rud.*: Die Deckung des Selbstmordrisikos in der Lebensversicherung. S. 397–402.

### **Schweizerische Zeitschrift für Volkswirtschaft und Statistik**

91. Jahrgang, 1955

*Bieri, H. G.*: Nochmals Verkehrsgleichung und Quantitätstheorie. S. 23–31.

*Zagoroff, S. D.*: National income and general productivity in terms of energy. S. 91–107.

Directives pour la présentation des résultats statistiques. S. 108–120.

*Brunner, Karl*: Ein Ausblick auf die ökonometrische Forschungsarbeit. S. 171–197.

*Sailer, Robert*: Contribution au calcul simplifié des pertes de potentiel-vie causées par l'avancement en âge de la population. S. 317–328.

*Zeller, Willy*: Probleme des Lebenskostenindex in Grossbritannien. S. 342–351.

*Freudenberg, Karl*: Die Sterblichkeit in hohen Lebensaltern. S. 438–459.

### **Zeitschrift für angewandte Mathematik und Physik (ZAMP)**

Vol. 6, 1955

Nichts zu vermerken.

### **Commentarii Mathematici Helvetici**

Vol. 29, 1955

Nichts zu vermerken.

### **Elemente der Mathematik**

Band 10, 1955

Nichts zu vermerken.

### **Experientia**

Vol. 11, 1955

*Zwinggi, Ernst*: Notiz zur Vermehrungsrate der stabilen Bevölkerung. S. 383.

*Miescher, K.*: Zur Frage der Altersforschung. S. 417–429.

### **Dialectica**

Vol. 8, N° 4, 1954

Nichts zu vermerken.

Vol. 9, N° 1–2, 1955

Nichts zu vermerken.

### **Bulletin de l'Association Royale des Actuaires Belges**

In 1955 kein Heft erschienen.

**Bulletin du Comité Permanent des Congrès Internationaux d'Actuaires**

N° 53, 1955

Nichts zu vermerken.

**Bulletin des Assurances**

35<sup>e</sup> Année, 1955

*Martin, M. G.*: Méthodes de mesure de la productivité dans l'assurance. S. 505–520.

**Annales de Sciences Economiques Appliquées**

13<sup>e</sup> année, 1955

*Campagne, C.*: La théorie mathématique de la réserve technique dans l'assurance incendie. S. 129–157.

*Lamine, T.*: Note au sujet de la prime unique d'une assurance pour la vie entière. S. 255–275.

*Geertman, J. A.*: L'évolution de la théorie de l'amortissement. S. 315–338.

*Timmermans, A.*: Le fonds des rentes. I<sup>re</sup> partie. S. 366–435.

**Bulletin de l'Institut de Recherches Economiques et Sociales**

21<sup>e</sup> année, 1955

Nichts zu vermerken.

**Blätter der Deutschen Gesellschaft für Versicherungsmathematik**

2. Band, Heft 2, 1955

*Knörlein, Franz*: Zur Mathematik der Gruppenversicherung gegen technische Durchschnittsprämie. S. 153–176.

*Dienst, Hans-Rudolf*: Einige Kriterien über das Auftreten negativer Prämienreserven bei Gruppenversicherungen gegen technische Durchschnittsprämie. S. 177–192.

*Gumbel, E. J.*: Die Bedeutung der Parameter in der Gompertz-Makehamschen Formel. S. 193–198.

*Bartsch, Rudolf*: Über ein Verfahren zur näherungsweise Ermittlung von Kommutations- und Rentenbarwerten. S. 199–202.

*Bierlein, Dieter*: Sterbetafeln lassen sich nicht so ausgleichen, dass die Reservekurven generell hyperbolisch sind. S. 203–208.

*Boehm, Carl*: Über den Charakter von Verbindungen zwischen Todes- und Erlebensfallversicherung. S. 209–223.

*Slatmann, Walter*: Der XIV. internationale Kongress der Versicherungsmathematiker. S. 225–235.

2. Band, Heft 3, 1955

*Ammeter, Hans*: Über die risikothoretischen Grenzen der Versicherbarkeit. S. 261 bis 277.

*Behr, Ismar von*: Gemischte Kapitalversicherungen mit erhöhter Erlebensfallsumme. S. 279–284.

- Jecklin, Heinrich*: Über die Möglichkeit, Sterbetafeln so auszugleichen, dass die Reservekurven generell hyperbolisch sind. S. 285–289.
- Bierlein, Dietrich*: Optimalmethoden für die Summenapproximation in Jecklins *F*-Methode. S. 291–352.
- Döring, Heinrich*: Die Statistische Zentralstelle des Verbandes der Lebensversicherungsunternehmen und ihre Aufgaben. S. 353–362.
- Goldenes Jubiläum der «Vereinigung Schweizerischer Versicherungsmathematiker». S. 363–365.
- Internationale versicherungsmathematische Bezeichnungsweise. S. 367–376.

### Versicherungswissenschaftliches Archiv

1. Band, 1955

- Grossmann, Marcel*: Die Bestrebungen zur Zusammenarbeit in der europäischen Versicherungswirtschaft. S. 23–32.
- Münzner, Hans*: Zum Problem der gerechten Versicherungsprämie. S. 51–58.
- Voigt, Fritz*: Die volkswirtschaftliche Bedeutung der Versicherung. S. 89–111.
- Fritz, Ernst*: Die Vorschriften über die Rechnungslegung der Versicherungsunternehmen in der Sicht der Versicherungsaufsichtsbehörde. S. 129–140.
- Hax, Karl*: Die Vorschriften über die Rechnungslegung der Versicherungsunternehmen in der Sicht des Betriebswirtes. S. 141–156.
- Heubeck, Georg*: Die Vorschriften über die Rechnungslegung der Versicherungsunternehmen in der Sicht des Mathematikers. S. 157–168.
- Lenhoff, Arthur*: Probleme des zwischenstaatlichen Versicherungsrechtes in amerikanischer Sicht. S. 267–284.
- Paish, F. W* und *Peacock, A. T.*: The economics of pension funds. Pensionsfonds in ökonomischer Sicht. S. 285–292 und 293–309.
- Schultze, Gustav*: Die Bemessung der Erwerbsfähigkeit. Die überlieferte Rechtspraxis im Lichte moderner Sozialanschauungen. S. 329–344.
- Doll, Hermann*: Entwicklung und Aufgaben der Lebensversicherungsmedizin. S. 385–409.
- Lochmaier, Karl*: Das versicherungstechnische Risiko als Problem der versicherungsbetrieblichen Preispolitik. S. 411–429.
- Schultze-Loch, Gustav*: Die Bemessung der Erwerbsfähigkeit. Reform des Gesetzes oder Korrektur der Rechtsprechung? S. 431–448.

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10. Jahrgang, 1955

- Schröder, Clemens*: Krankheitskosten der beiden letzten Lebensjahre. S. 16.
- Mathematiker beraten Sterbetafeln für Rentenversicherung. S. 162.
- Kristinus, Fritz* und *Hirnet, Hanns*: Schadenreserve-Ermittlung durch Lochkarten. S. 240–242.
- Schöbe, Waldemar*: Neue Sterbetafeln für die Rentenversicherung. S. 446.
- Mehring, Johannes* und *Röper, Gerhard*: Die zukünftige Entwicklung der Bevölkerung im Bundesgebiet. S. 526–527.
- Tosberg, Adolf*: Zur Begründung einer allgemeingültigen Krankenversicherungsmathematik. S. 577–579.

**Schriftenreihe des Instituts für Versicherungswissenschaft  
an der Universität Köln**

Neue Folge, Heft 12, 1953

- Boettinger*: Der Versicherungsfall in der allgemeinen Haftpflichtversicherung nach deutschem und ausländischen Rechten sowie die zeitliche Geltungsdauer des Versicherungsschutzes nach § 1 AHB. S. 5–116.
- Möller, H.*: Geldwertschwankungen und Versicherungswesen. S. 117–125.
- Schmidt, R.*: Bedeutung des Rechtsgedankens der Naturalrestitution für den Ausgleich von Geldwertschwankungen. S. 127–133.
- Teutsch, A.*: Die Versicherung der Unternehmer und unternehmerähnlicher Personen gegen Arbeitsunfälle in der Sozialversicherung. S. 135–164.

Neue Folge, Heft 14, 1955

- Boss, Peter*: Systeme der Staatsaufsicht über Versicherungsunternehmungen. S. 1–124.

**Jahrbuch 1956**

herausgegeben vom Verein für Versicherungswissenschaft und -praxis in Hessen

- Müller-Lutz, Heinz-Leo*: Gedanken zur betriebswirtschaftlichen Sonderstellung des Versicherungswesens. S. 34–39.
- Veit, Walter*: Die Organisation der selbständigen Versicherungsvertreter in deutscher und internationaler Sicht. S. 40–52.

**Karlsruher Versicherungswoche 1955**

- Möller, Alex*: Ein Lebensversicherungsunternehmen erlebt 120 Jahre. S. 1–28.
- Hochrein, M.*: Gesundheitsgefährdung durch Übermüdung. S. 1–34.
- Doll, Hermann*: Lebensversicherungsmedizin im Zeitgeschehen. S. 1–32.
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- Keil, Adalbert*: Der Rechtsgedanke in der Vertragsversicherung. S. 1–18.
- Schweiger, Paula*: Das Gesetz der grossen Zahlen. S. 1–20.
- Hain, Mathilde*: Die Frau im Berufsleben der Gegenwart. S. 1–16.
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- Holzamer, Karl*: Sicherung – Sicherheit – Selbstverantwortung. S. 1–15.

**Allgemeines Statistisches Archiv**

39. Band, 1955

- Maier, Walter*: Studie über die Entwicklung der Bevölkerungsstruktur eines Volkes. S. 38–40.
- Wold, Herman*: Die theoretische Ausbildung, praktische Schulung sowie Weiterbildung von Statistikern. S. 144–152.

*Kellerer, Hans*: Eine Verallgemeinerung des einfachen Urnenmodells und ihre Anwendung in der Stichprobentheorie. S. 221–226.

*Strobel, Dietrich*: Stichprobenmethoden in der quantitativen Marktforschung. S. 227 bis 232.

*Oerding, Rudolf*: Multi-Test-Gerät mit «Gedächtnis». S. 246–249.

### **Mitteilungsblatt für Mathematische Statistik**

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*Bargmann, R.*: Signifikanzuntersuchungen der Einfachen Struktur in der Faktorenanalyse. S. 1–24.

*Bauer, R. K.*: Die Lexissche Dispersionstheorie in ihren Beziehungen zur modernen statistischen Methodenlehre, insbesondere zur Streuungsanalyse (analysis of variance). S. 25–45.

*Ihm, P.*: Ein Kriterium für zwei Typen zweidimensionaler Normalverteilungen. S. 46–52.

*Oerding, R.*: Technische Ermittlungsverfahren im Dienste der Hörer-Meinungsforschung. S. 53–65.

*Wiezorke, B.*: Fehlerabschätzung zum Binomialpapier von Mosteller-Tuckey. S. 66 bis 70.

*Wiezorke, B.*: Über ein Zählverfahren zur Bestimmung von Mittelwert und Streuung. S. 71–82.

*Anderson, O.*: Eine «nicht-parametrische» Ableitung der Streuung. S. 85–112.

*Stange, K.*: Zur Ermittlung der Abgangslinie für wirtschaftliche und technische Gesamtheiten. S. 113–151.

*Wartmann, R.*: Einige Bemerkungen zur logarithmischen Normalverteilung. S. 152 bis 165.

*Schelling, H. v.*: Statistische Modelle als Hilfsmittel der Naturbeschreibung. S. 173 bis 192.

*Stange, K.*: Die ausgelesene Normalverteilung im Wahrscheinlichkeitsnetz. S. 193 bis 202.

*Lah, I.*: Eine neue Art von Zahlen, ihre Eigenschaften und Anwendung in der mathematischen Statistik. S. 203–212.

*Vries, H. L. de*: Über die innere Oberfläche eines Haufwerks von Kugeln. S. 213 bis 219.

### **Zeitschrift für angewandte Mathematik und Mechanik**

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*Blanc, Ch. und Liniger, W.*: Stochastische Fehlerauswertung bei numerischen Methoden. S. 121–130.

*Quade, W.*: Zur Interpolationstheorie der reellen Funktionen. S. 144–156.

*Haacke, Wolfhart*: Zur iterativen Bestimmung der Rentabilität einer Zinsanleihe. S. 327–330.



*Rossow, Ernst*: Eine einfache Näherung an die Berechnung der normal scores. S. 342–344.

*Heinrich, H.*: Eine Umkehrung des Horner'schen Schemas. S. 468–469.

*Pieruschka, E.*: Die statistische Verteilung für das Auftreten des zweiten, dritten, oder allgemein  $n$ -ten Fehlers eines Gerätes. S. 470–473.

### **Journal für die reine und angewandte Mathematik**

Band 193, 1954

Nichts zu vermerken.

Band 194, 1955

Nichts zu vermerken.

Band 195, 1955

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### **Mathematische Annalen**

129. Band, 1955

Nichts zu vermerken.

130. Band, 1955

Nichts zu vermerken.

### **Mathematische Zeitschrift**

62. Band, 1955

*Müller, Max*: Über Interpolation mittels ganzer rationaler Funktionen. S. 292–309.

*Eweida, M. T.*: On Newton's series of interpolation. S. 352–353.

63. Band, 1.–3. Heft, 1955

Nichts zu vermerken.

### **Archiv der Mathematik**

6. Band, 1955

Nichts zu vermerken.

### **Bulletin trimestriel de l'Institut des Actuaires Français**

Tome 54<sup>e</sup>, 1955

*Vanlaer, G.*: Recherche d'un équilibre financier réel en assurance-vie. S. 21–35.

*Mayerson, R.*: Méthodes de participation des assurés aux bénéfices. S. 37–45.

*Razous, P.*: Les inflations monétaires à travers l'histoire. S. 77–156.

*Savignon, E.*: Quelques suggestions pour l'utilisation d'une calculatrice électronique par une Compagnie d'Assurances sur la Vie. S. 173–230.

*Aribaud, Henri*: Le délai d'attente dans certains systèmes financiers et ses conséquences. S. 255–302.

## Population

10<sup>e</sup> année, 1955

- Henry, Louis et Pressat, Roland*: Evolution de la population de la France jusqu'en 1970. S. 9–56.
- Tabah, Léon*: La mortalité sociale: Enquête nouvelle en Angleterre. S. 57–78.
- Tabah, Léon*: Le congrès mondial de la population (31 août–10 septembre 1954). S. 216–238.
- Malécot, Gustave*: La génétique de la population. Principes et applications. S. 239 bis 262.
- Doublet, Jacques*: La sécurité sociale et les frontières. S. 263–276.
- Henry, Louis*: La situation démographique. S. 316–336 und 717–726.
- Sauvy, Alfred*: Les tendances de la population active en France. S. 413–426.
- Henry, Louis et Pressat, Roland*: Evolution de la fécondité en Italie. S. 501–528.
- Sauvy, Alfred*: Deux techniciens précurseurs de Malthus: Boesnier de l'Orme et Auxiron. S. 691–704.

### Publications de l'Institut de Statistique de l'Université de Paris Mémoires et conférences sur le calcul des probabilités, la statistique théorique et appliquée, l'économétrie.

Vol. 4, N° 1, 1955

- Dugué, D. et Girault, M.*: Fonctions convexes de Polya. S. 3–10.
- Fréchet, Maurice*: Courbes aléatoires. S. 11–20.
- Halphen, Etienne*: Les fonctions factorielles. S. 21–39.
- Halphen, Etienne*: La notion de vraisemblance. S. 41–92.
- Soulé, J. L.*: Energie cinétique moyenne d'une particule en mouvement brownien dans un fluide réel. S. 93–104.

### Revue de statistique appliquée

Vol. 3, N° 1, 1955

- Rambach, R.*: Le contrôle statistique, source d'économie à tous les stades de la fabrication. S. 9–20.
- Dor, L.*: D'une étude statistique de la limite élastique des aciers A 37 et A 42. S. 21–34.
- Mathieu, J. C.*: Etude de la variabilité des épaisseurs des feuilles de fer blanc. S. 35–41.
- Box, G. E. P.*: Plan statistique dans l'étude des méthodes de l'analyse chimique. S. 43–56.
- Rambach, R.*: Application aux problèmes industriels de la règle de composition des variances. S. 57–61.
- Montel, J.*: La consommation des tabacs fabriqués en France. S. 63–72.
- Henon, R.*: Combien de machines peut-on confier à un seul agent? S. 73–81.
- Kreweras, G.*: Mise en équations du problème des stocks. S. 83–89.

- Couffignal, L. et Lenouvel, M. A.*: Sur le lissage des suites de points. S. 91–100.  
*Gelain, J.*: Réflexions sur le mode d'expression des conclusions statistiques. S. 103 bis 106.

Vol. 3, N° 2, 1955

- Mothes, J.*: Principes fondamentaux de la méthode statistique et applications industrielles (2<sup>e</sup> partie). S. 13–26.  
*Pommier, P., Brunel, G. et Calliez, J.*: Le contrôle des traitements thermiques des pièces par les méthodes statistiques. S. 27–34.  
*Hénon, R.*: Gestion des stocks. S. 35–47.  
*Cyffers, B.*: Irrégularité de remplissage dans le paquetage mécanique. S. 49–54.  
*Ollagnier, M. et Gros, D.*: Utilisation des fiches perforées à 80 colonnes pour l'interprétation des résultats des expériences factorielles. S. 55–64.  
*Morice, E.*: Les méthodes d'analyse de la variance. S. 65–82.  
*Bastenaire, F.*: Estimation d'une relation structurale et comparaison de deux méthodes de mesure d'une même grandeur. S. 83–99.  
*Leroy, A.*: La recherche opérationnelle. S. 101–108.  
*Malinvaud, E.*: Introduction à l'étude des programmes linéaires. S. 109–117.

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- Kleinmann, E.*: Détermination simultanée de l'engagement réel de 450 machines. S. 11–21.  
*Gottardi, F. et Palazzi, A.*: Comparaison de trois réfractaires pour plaques de coulées du point de vue de leur comportement en service. S. 23–38.  
*Pillet, L.*: L'analyse de la variance et les plans factoriels dans leurs applications à l'étude de la conservation des agrumes. S. 39–61.  
*Spreux, M.*: Contrôle statistique des mises au mille dans la coulée et le laminage de l'acier. S. 63–71.  
*Pilé, G.*: Etude des délais d'attente des Aéronefs à l'atterrissage. S. 73–84.  
*Dumas, M.*: Choix et détermination pratique d'intervalles de confiance. S. 85–101.  
*Daru, E.*: Nombre de machines automatiques à confier à un ouvrier en vue d'atteindre le prix de revient industriel minimum. S. 103–108.  
*Blet, G.*: Une nouvelle méthode d'exploitation des résultats expérimentaux. S. 109 bis 121.

Vol. 3, N° 4, 1955

- Lesavre, J.*: Etude du phénomène de choc, cas particulier du lucoflex dans sa zone de transition. S. 7–25.  
*Monfort, F.*: Application de la carte de contrôle à la surveillance du taux en filature peignée. Efficacité du test. Centrage initial. S. 27–43.  
*Cyffers, B. et Vessereau, A.*: Mesure et contrôle de la dispersion à partir de groupes de deux. S. 45–59.  
*Adhikari, B. P.*: Etude: traitement statistique du comportement des véhicules au carrefour. S. 61–69.

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